

RELIABLE

The CTI-160 Solar Module from Carmanah is a high-efficiency monocrystalline solar module that provides outstanding performance and cost-effective solar power for high-end off-grid and mobile applications. Carmanah's CTI-160 solar module is built to last and features a 20-year limited power output warranty.

DURABLE

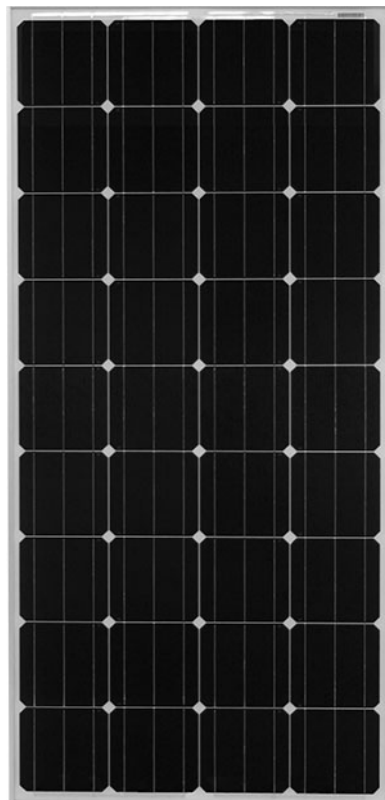
To ensure long life, the high-efficiency solar cells are encapsulated between a special tempered, low-iron solar glass and a Tedlar®/polyester backing material. The mounting frame, manufactured from anodized marine-grade aluminum, allows the CTI-160 to be installed in extreme conditions.

FEATURES

- Compact and rugged design
- Plug and play junction box
- Lightweight anodized aluminum frame
- High transmissivity tempered glass
- Industry standard quick-connect cables (MC4) work in series or in parallel
- **20-year limited power output warranty**

APPLICATIONS

- RV/Marine
- 12/24 Volt battery systems
- OEM
- Security Trailers
- Telecommunications
- Stand-alone or grid connected applications
- Signaling systems
- Remote telemetry
- Water pumping
- Other off-grid applications



CTI-160



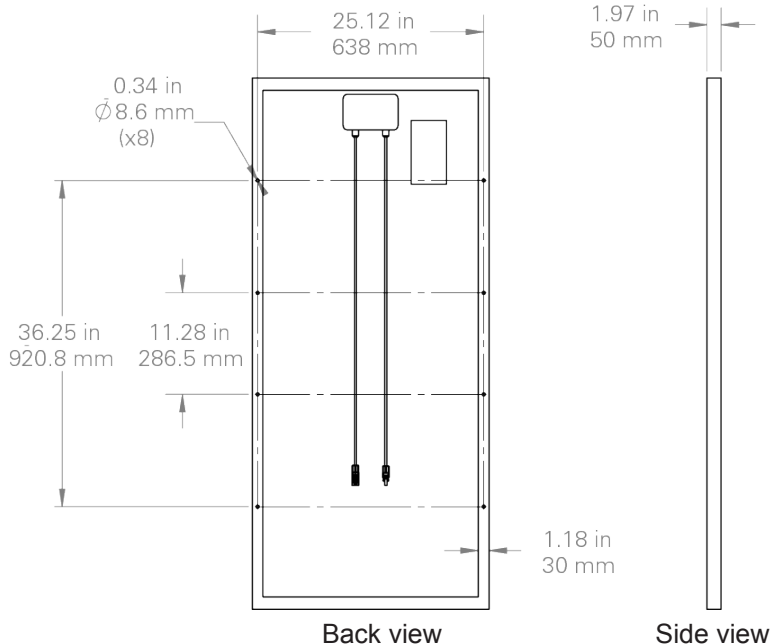
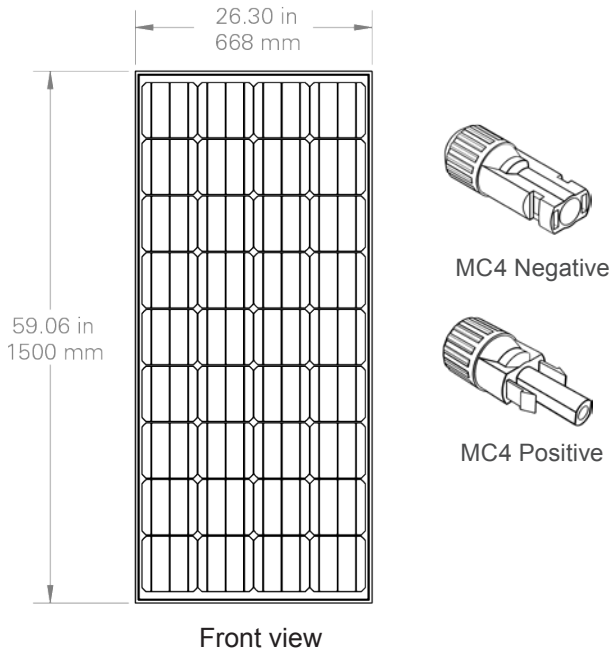
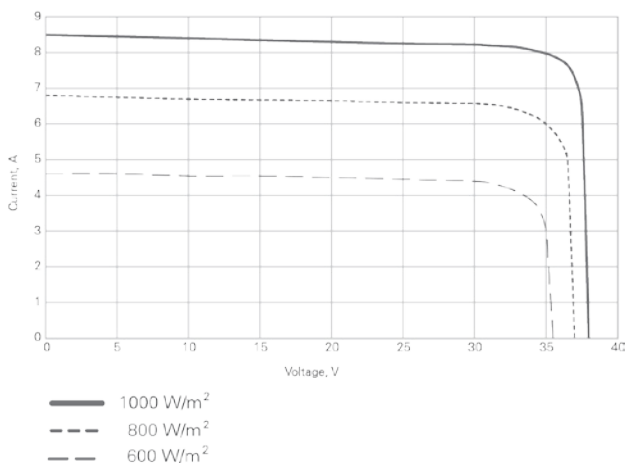
SPECIFICATIONS

| | |
|--|---|
| Rated power (P _m) | 160W |
| Maximum power voltage (V _{mp}) | 18.60V |
| Maximum power current (I _{mp}) | 8.60A |
| Open circuit voltage (V _{oc}) | 22.50V |
| Short circuit current (I _{sc}) | 9.29A |
| Power coefficient | -0.39% / °C |
| Voltage coefficient | -0.31% / °C |
| Current coefficient | 0.045% / °C |
| Max power tolerance | +/- 5W |
| Cell type | Monocrystalline |
| Module efficiency | 16.4% |
| Series fuse rating | 20A |
| Maximum system voltage | 1000VDC (UL / IEC) |
| Operating temperature | -40°C to 85°C (-40°F to 185°F) |
| Weight | 12 kg (26.4 lb) |
| Dimensions | 1500 x 668 x 50 mm 59.1 x 26.3 x 1.97 in |
| Frame type / material | Clear anodized aluminum frame |

Power Specifications calculated at STC:

- Irradiance: 1000 W/m²
- Cell Temperature: 77°F (25°C)
- Air Mass: 1.5

IV CURVE PARAMETERS



Specifications subject to local environmental conditions.

Specifications may be subject to change.

US and International patents apply. Other patents pending.

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All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

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